

?show files;ds  
Efile 347:JAPIO Oct 1976-2003/Jan(Updated 030506)  
      (c) 2003 JPO & JAPIO  
File 351:Derwent WPI 1963-2003/UD,UM &UP=200329  
      (c) 2003 Thomson Derwent  
File 371:French Patents 1961-2002/BOPI 200209  
      (c) 2002 INPI. All rts. reserv.

Set	Items	Description
S1	983896	COMPUTERI? OR AUTOMAT?? OR (REMOTE?? OR CENTRAL?? OR AUTOMATIC OR ELECTRONIC?)()CONTROL? OR ROBOT?? OR SERVO? ? OR SERVOMECH? OR PROGRAMMED OR CYBERNETIC? ?
S2	2451276	SENS?R? ? OR DETECT??? OR SENSE OR PERCEIV??? OR RECOGNI? - OR DISTINGUISH??? OR FIND???
S3	1776379	TARGET?? OR OBJECT??? OR GOAL? ? OR CENTER? ? OR FOCUS?? OR FOCI OR DESTINATION? ? OR AIM OR AIMS OR MARK? ?
S4	1207779	ANGLE? ? OR CORNER? ? OR PROJECTION? ? OR SALIENT? ?
S5	1532845	MEASUR? OR TRIANGULAT? OR GAUG??? OR MENSURAT??? OR CALCULAT??? OR COMPUTE OR SURVEY???
S6	120090	S2(5N)S3
S7	36882	S4(5N)S5
S8	12	S1(10N) (S6(10N)S7)
S9	12	IDPAT (sorted in duplicate/non-duplicate order)
S10	12	IDPAT (primary/non-duplicate records only)

10/3,K/1 (Item 1 from file: 351)

DIALOG(R)File 351:Derwent WPI

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013849894 \*\*Image available\*\*

WPI Acc No: 2001-334107/200135

XRPX Acc No: N01-241141

Steering assistant apparatus for motor vehicles, generates steering reaction force when direction of steering deviates from target angle

Patent Assignee: TOYOTA JIDOSHA KK (TOYT )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2001106105	A	20010417	JP 99288469	A	19991008	200135 B

Priority Applications (No Type Date): JP 99288469 A 19991008

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

JP 2001106105 A 7 B62D-006/00

Abstract (Basic):

... Steering angle sensor (34) detects steering angle . Target steering angle is calculated by the electronic controller (38). When the steering angle deviates from the target steering angle, steering reaction force torque...

10/3,K/2 (Item 2 from file: 351)

DIALOG(R)File 351:Derwent WPI

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013038406 \*\*Image available\*\*

WPI Acc No: 2000-210259/200019

XRPX Acc No: N00-157056

Automatic inclinometer for horizontal underground variation measurement , compares pipe inclination angle and inclinometer position with time sequential target to find horizontal variation of measurement location

Patent Assignee: TOKYO SOKKI KENKYUSHO KK (TOKS-N)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 11337330	A	19991210	JP 98144588	A	19980526	200019 B

Priority Applications (No Type Date): JP 98144588 A 19980526

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

JP 11337330 A 6 G01C-009/00

Automatic inclinometer for horizontal underground variation measurement , compares pipe inclination angle and inclinometer position with time sequential target to find horizontal variation of measurement location

10/3,K/3 (Item 3 from file: 351)

DIALOG(R)File 351:Derwent WPI

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012417733 \*\*Image available\*\*

WPI Acc No: 1999-223841/199919

XRAM Acc No: C99-065655

XRPX Acc No: N99-166325

Weaving controller of multi-joint welding robot - finds target angle for simple harmonic machine of welding torch end along two axes by resolving

relative weaving amount corresponding to direction vector

Patent Assignee: KOMATSU SEISAKUSHO KK (KOMS )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 11058014	A	19990302	JP 97214765	A	19970808	199919 B

Priority Applications (No Type Date): JP 97214765 A 19970808

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 11058014	A	10	B23K-009/12	

...Abstract (Basic): vector of welding torch end along two axes except the latest during micro rotation of robot 's wrist shaft. A calculator (6) sequentially finds the target angle for simple harmonic motion of two axes based on variation calculated by resolving the amount...

10/3,K/4 (Item 4 from file: 351)

DIALOG(R)File 351:Derwent WPI

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010376395 \*\*Image available\*\*

WPI Acc No: 1995-277709/199537

Related WPI Acc No: 1995-277710; 1995-277711; 1996-132161; 1998-225788; 2001-526338; 2002-198313

XRPX Acc No: N01-460050

Three-dimensional object-shape measuring system, has image sensor with selectable specific detecting area for receiving light reflected from object, for selective reading of reflected light

Patent Assignee: MINOLTA CAMERA KK (MIOC ); FUJII E (FUJI-I); HIROSE S (HIRO-I); IMAI S (IMAI-I); MIYAZAKI M (MIYA-I); NORITA T (NORI-I); YAGI F (YAGI-I); MINOLTA CO LTD (MIOC )

Inventor: FUJII E; HIROSE S; IMAI S; MIYAZAKI M; NORITA T; YAGI F

Number of Countries: 002 Number of Patents: 010

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 7174536	A	19950714	JP 93320245	A	19931220	199537 B
US 6243165	B1	20010605	US 94358306	A	19941219	200172
			US 97841560	A	19970430	
US 5668631	A	19970916	US 94358306	A	19941219	199743
US 20010043335	A1	20011122	US 94358306	A	19941219	200176
			US 97841560	A	19970430	
			US 99387498	A	19990901	
			US 2001879896	A	20010614	
JP 3282331	B2	20020513	JP 93320245	A	19931220	200234
US 6407817	B1	20020618	US 94358306	A	19941219	200244
			US 97841560	A	19970430	
			US 99387498	A	19990901	
US 20020131056	A1	20020919	US 94358306	A	19941219	200264
			US 97841560	A	19970430	
			US 99387498	A	19990901	
			US 200275230	A	20020215	
US 20020159072	A1	20021031	US 94358306	A	19941219	200274
			US 97841560	A	19970430	
			US 99387498	A	19990901	
			US 2002118054	A	20020409	
US 6480288	B1	20021112	US 94358306	A	19941219	200278
			US 97841560	A	19970430	
			US 99387498	A	19990901	
			US 2002118054	A	20020409	
US 6522412	B2	20030218	US 94358306	A	19941219	200317
			US 97841560	A	19970430	
			US 99387498	A	19990901	

Priority Applications (No Type Date): JP 93320245 A 19931220; JP 93320246 A 19931220; JP 93320247 A 19931220; JP 94132998 A 19940615

## Patent Details:

Patent No	Kind	Ln	Pg	Main IPC	Filing Notes
JP 7174536	A		26	G01B-011/24	
US 6243165	B1		88	G01B-011/04	Div ex application US 94358306 Div ex patent US 5668631
US 5668631	A		88	G01B-011/24	Div ex application US 94358306
US 20010043335	A1			G01B-011/24	Div ex application US 97841560 Cont of application US 99387498 Div ex patent US 5668631 Div ex patent US 6243165
JP 3282331	B2		25	G01B-011/24	Previous Publ. patent JP 7174536
US 6407817	B1			G01B-011/14	Div ex application US 94358306 Div ex application US 97841560 Div ex patent US 5668631 Div ex patent US 6243165
US 20020131056	A1			G01B-011/24	Div ex application US 94358306 Div ex application US 97841560 Cont of application US 99387498 Div ex patent US 5668631 Div ex patent US 6243165
US 20020159072	A1			G01B-011/30	Div ex application US 94358306 Div ex application US 97841560 Cont of application US 99387498 Div ex patent US 5668631 Div ex patent US 6243165
US 6480288	B1			G01B-011/14	Div ex application US 94358306 Div ex application US 97841560 Cont of application US 99387498 Div ex patent US 5668631 Div ex patent US 6243165 Cont of patent US 6407817
US 6522412	B2			G01B-011/24	Div ex application US 94358306 Div ex application US 97841560 Cont of application US 99387498 Div ex patent US 5668631 Div ex patent US 6243165 Cont of patent US 6407817

...Abstract (Basic): USE/ADVANTAGE - E.g. for measurement of living object or visual- angle recognition of robot. Reduces image reading time. Measures target object at high speed...

10/3,K/5 (Item 5 from file: 351)

DIALOG(R) File 351:Derwent WPI  
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008859096 \*\*Image available\*\*

WPI Acc No: 1991-363119/199150

XRPX Acc No: N91-278154

Optical information processor using computer generated hologram - optically Fourier transforms object image and matches pattern with computer generated hologram of reference image

Patent Assignee: MATSUSHITA ELECTRIC IND CO LTD (MATU ); ITOH M (ITOH-I);  
MATSUSHITA ELEC IND CO LTD (MATU )

Inventor: FUKUI A; ITOH M; KAWAMURA H; NISHII K

Number of Countries: 006 Number of Patents: 009

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
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EP 460625	A	19911211	EP 91109168	A	19910605	199150	B
CA 2043843	A	19911206				199209	
EP 460625	A3	19930602	EP 91109168	A	19910605	199404	
US 5386378	A	19950131	US 91710461	A	19910605	199511	
			US 92967739	A	19921028		
US 5497433	A	19960305	US 91710461	A	19910605	199615	
			US 92967739	A	19921028		
			US 93136250	A	19931015		
			US 95440236	A	19950512		
KR 9500752	B1	19950128	KR 919286	A	19910605	199646	
EP 460625	B1	19990331	EP 91109168	A	19910605	199917	
DE 69131061	E	19990506	DE 631061	A	19910605	199924	
			EP 91109168	A	19910605		
CA 2043843	C	20000314	CA 2043843	A	19910604	200032	

Priority Applications (No Type Date): JP 90148242 A 19900605

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 460625	A	Designated States (Regional): DE FR GB					
US 5386378	A	24 G06E-003/00	CIP of application US 91710461				
US 5497433	A	25 G06K-009/76	CIP of application US 91710461				
			Div ex application US 92967739				
			Cont of application US 93136250				
			Div ex patent US 5386378				
KR 9500752	B1	G03H-001/16					
EP 460625	B1 E	G06K-009/76					
	Designated States (Regional): DE FR GB						
DE 69131061	E	G06K-009/76	Based on patent EP 460625				
CA 2043843	C E	G06E-003/00					
...Abstract (Basic): USE/ADVANTAGE - Optical image processing in industrial robots . Processes information in real-time, recognises objects shifted parallel to the origin of a system coordinate, measures angle of rotation and distance. (10pp Dwg.No.1/9)							

10/3,K/6 (Item 6 from file: 351)

DIALOG(R)File 351:Derwent WPI

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007704353 \*\*Image available\*\*

WPI Acc No: 1988-338285/198847

XRPX Acc No: N88-256393

Alignment error correction for gun fire control device - uses calculated target misalignment error to correct control signals during firing

Patent Assignee: OERLIKON-CONTRAVES AG (OERL ); CONTRAVES AG (COTV )

Inventor: SCHUEEPP P; TOTH P

Number of Countries: 015 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 8808952	A	19881117	WO 88EP365	A	19880502	198847	B
AU 8816883	A	19881206				198913	
EP 314721	A	19890510	EP 88903826	A	19880502	198919	
US 5208418	A	19930504	WO 88EP365	A	19880502	199319	
			US 88294489	A	19881209		
EP 314721	B1	19930908	EP 88903826	A	19880502	199336	
			WO 88EP365	A	19880502		
DE 3883916	G	19931014	DE 3883916	A	19880502	199342	
			EP 88903826	A	19880502		
			WO 88EP365	A	19880502		
KR 9614641	B1	19961019	WO 88EP365	A	19880502	199929	
			KR 89700066	A	19890112		

Priority Applications (No Type Date): CH 871881 A 19870515

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 8808952	A	G	32		
Designated States (National): AU JP KR US					
Designated States (Regional): AT BE CH DE FR GB IT LU NL SE					
EP 314721	A	G			
Designated States (Regional): BE CH DE FR GB IT LI NL SE					
US 5208418	A	11	F41G-003/02	Based on patent WO 8808952	
EP 314721	B1	G	14	F41G-003/32	Based on patent WO 8808952
Designated States (Regional): BE CH DE FR GB IT LI NL SE					
DE 3883916	G		F41G-003/32	Based on patent EP 314721	
Based on patent WO 8808952					
KR 9614641	B1		F41G-003/32		

...Abstract (Equivalent): in servo controls of the carriages, characterized by the following process stages: a: installation of **target measuring sensors** for **target angle** determination (B, TV) on guns with **servo** -controlled carriages (G1, G2, G3) and alignment of the target-measuring sensor line of sight...

10/3,K/7 (Item 7 from file: 347)

DIALOG(R)File 347:JAPIO

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07472018 \*\*Image available\*\*

METHOD AND APPARATUS FOR MEASURING TILT ANGLE OF MIRROR SURFACE

PUB. NO.: 2002-340535 [JP 2002340535 A]  
 PUBLISHED: November 27, 2002 (20021127)  
 INVENTOR(s): OKABE MASAHIRO  
 APPLICANT(s): CANON INC  
 APPL. NO.: 2001-142003 [JP 20011142003]  
 FILED: May 11, 2001 (20010511)

#### ABSTRACT

... means for rotating and indexing a measuring object and a means for moving the displacement **sensor** to the measuring **object**. In this constitution, the **automatic** collimator **measures** the angle of the surface to be **measured** which serves as the mirror surface and the displacement sensor measures the height of the...

10/3,K/8 (Item 8 from file: 347)

DIALOG(R)File 347:JAPIO

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06889510 \*\*Image available\*\*

TACHYMETR TELESCOPE

PUB. NO.: 2001-117019 [JP 2001117019 A]  
 PUBLISHED: April 27, 2001 (20010427)  
 INVENTOR(s): HINDERLING JUERG  
 APPLICANT(s): LEICA GEOSYSTEMS AG  
 APPL. NO.: 2000-263865 [JP 2000263865]  
 FILED: August 31, 2000 (20000831)  
 PRIORITY: 99 99117112 [EP 99117112], EP (European Patent Office),  
 August 31, 1999 (19990831)

#### ABSTRACT

... telescope is equipped with at least one 3rd sensor device S1, 21 or 27 for **automatic** **target** **detection** by one processing unit for plural surface sensors with **angle** **measurement** 27 as another evaluation unit. In the telescope, all the collimation axes of sensor devices...

10/3,K/9 (Item 9 from file: 347)  
DIALOG(R)File 347:JAPIO  
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04764033 \*\*Image available\*\*  
AUTOMATIC TRACKING TYPE POSITION MEASURING DEVICE FOR MOBILE OBJECT

PUB. NO.: 07-056633 [JP 7056633 A]  
PUBLISHED: March 03, 1995 (19950303)  
INVENTOR(s): YOSHIKAWA KOJI  
FUJIWARA MASANORI  
APPLICANT(s): KUBOTA CORP [000105] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 05-206775 [JP 93206775]  
FILED: August 23, 1993 (19930823)

ABSTRACT

...CONSTITUTION: At the side of an **automatic** tracking device B, an **object angle detecting** means E **calculates** an **angle**  $\alpha$  of an illuminant 20 against the center point O of a screen within each...

10/3,K/10 (Item 10 from file: 347)  
DIALOG(R)File 347:JAPIO  
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04102149 \*\*Image available\*\*  
DEVICE FOR COMPLYING WITH REMOTE CONTROL OF CAMERA

PUB. NO.: 05-093849 [JP 5093849 A]  
PUBLISHED: April 16, 1993 (19930416)  
INVENTOR(s): MITSU SHIGERU  
TAKEDA HIROSHI  
SUZUKI AKIRA  
AOKI KAZUMASA  
HASHIMOTO TETSUYA  
APPLICANT(s): RICOH CO LTD [000674] (A Japanese Company or Corporation), JP  
(Japan)  
APPL. NO.: 03-282308 [JP 91282308]  
FILED: October 02, 1991 (19911002)  
JOURNAL: Section: P, Section No. 1591, Vol. 17, No. 438, Pg. 151,  
August 12, 1993 (19930812)

ABSTRACT

PURPOSE: To obtain a sure range-finding and angle-measuring device respondent to **remote control** which **measures** an object distance and the **angle** of view of an **object** by providing a light receiving **sensor** for range-finding and **angle - measuring** which receives a near infrared luminous flux...

10/3,K/11 (Item 11 from file: 347)  
DIALOG(R)File 347:JAPIO  
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04019033 \*\*Image available\*\*  
THREE-DIMENSIONAL SHAPE MEASURING APPARATUS

PUB. NO.: 05-010733 [JP 5010733 A]  
PUBLISHED: January 19, 1993 (19930119)  
INVENTOR(s): HIRUKAWA HIDEO  
IMAI YOSHIHISA  
APPLICANT(s): YOKOGAWA ELECTRIC CORP [000650] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 03-165561 [JP 91165561]

FILED: July 05, 1991 (19910705)  
JOURNAL: Section: P, Section No. 1544, Vol. 17, No. 269, Pg. 66, May  
25, 1993 (19930525)

ABSTRACT

...of a 1/4 wavelength plate 7, to the measurement object 9 again, and an automatic focusing system to detect the focusing error of the objective lens 8 based on the reflected light spreading angle from the measurement object 9 and to return the objective lens 8 to make constant well-focusing condition...

10/3,K/12 (Item 12 from file: 347)  
DIALOG(R)File 347:JAPIO  
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02312108 \*\*Image available\*\*  
**AUTOMATIC MEASURING METHOD FOR POSITIONAL DEVIATION AND ANGLE OF ATTITUDE OF OBJECT WITH LINE SENSOR**

PUB. NO.: 62-229008 [JP 62229008 A]  
PUBLISHED: October 07, 1987 (19871007)  
INVENTOR(s): TAKANO HIDEHIKO  
ARATAKI HIROO  
APPLICANT(s): AGENCY OF IND SCIENCE & TECHNOL [000114] (A Japanese Government or Municipal Agency), JP (Japan)  
MAZDA MOTOR CORP [000313] (A Japanese Company or Corporation), JP (Japan)  
APPL. NO.: 61-073399 [JP 8673399]  
FILED: March 31, 1986 (19860331)  
JOURNAL: Section: P, Section No. 681, Vol. 12, No. 95, Pg. 66, March 29, 1988 (19880329)

**AUTOMATIC MEASURING METHOD FOR POSITIONAL DEVIATION AND ANGLE OF ATTITUDE OF OBJECT WITH LINE SENSOR**